

CLAIMS:

1. A combination tag, comprising:

a retroreflective article having an optical article and a reflective layer;

5 wherein the optical article includes an optical surface, an opposite rear surface, and a structured surface coextensive with one of the optical surface and the rear surface;

wherein the reflective layer is deposited on at least a portion of the structured surface of the optical article;

10 a radio frequency-responsive element including an antenna and an integrated circuit, the radio frequency-responsive element having information storage and transmission capabilities adapted to enable an interrogation system to obtain information from the radio frequency-responsive element; and

15 wherein the radio frequency-responsive element is coupled to one of the optical surface or rear surface of the retroreflective article.

2. The combination tag of claim 1 wherein the reflective layer includes a non-contiguous metal layer.

20 3. The combination tag of claim 2 wherein the reflective layer is a metallized ink.

4. The combination tag of claim 3 wherein the reflective layer has a metal content of about 10% to 14% by volume.

25 5. The combination tag of claim 3 wherein the metal is silver.

30 6. The combination tag of claim 1 wherein the optical article includes glass microspheres embedded in a spacing resin, and wherein the optical surface and rear surface are formed from the spacing resin.

7. The combination tag of claim 6 wherein the reflective layer is deposited directly on at least portions of the spacing resin.

8. The combination tag of claim 1, and further comprising security indicia disposed on the optical article.

- 5 9. A combination tag, comprising:
a retroreflective article having an optical article and a reflective layer;
wherein the optical article includes optical elements comprising
microspheres, the optical article having an optical surface and an opposite structured
rear surface; and
- 10 wherein the reflective layer is a non contiguous metallized layer
deposited on at least a portion of the structured rear surface of the optical article; and
a radio frequency-responsive element coupled to the rear surface of the
article, the radio frequency-responsive element including an antenna and an integrated
circuit, the radio frequency-responsive element having information storage and
- 15 transmission capabilities adapted to enable an interrogation system to obtain
information from the radio frequency-responsive element.